



Peatland Biogeochemistry and Watershed Hydrology at the Marcell Experimental Forest

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The Marcell Experimental Forest (MEF) in Minnesota serves as a living laboratory and provides scientists with a fundamental understanding of peatland hydrology, acid rain impacts, nutrient and carbon cycling, trace gas emissions, and controls on mercury transport in boreal watersheds. Its important role in scientific research continues to grow as the data gathered offers invaluable insight into environmental changes over the last century and goes far in answering many of today's pressing questions at landscape and global scales.

Synthesizing five decades of research, **Peatland Biogeochemistry and Watershed Hydrology at the Marcell Experimental Forest** includes hundreds of research publications, dozens of graduate theses, and even some previously unpublished studies. Research at the MEF has been at the forefront of many scientific disciplines and these 15 chapters offer the depth and breadth of long-term studies on hydrology, biogeochemistry, ecology, and forest management on peatland watersheds at the MEF.

Focusing on peatlands, lakes, and upland landscapes, the book begins with the pioneering research on hydrology done during the 1960s. It presents the innovative 1970's studies of atmospheric deposition; the 1980's research into nutrient cycles including carbon, nitrogen, and methane emissions; and the 1990's investigations into mercury deposition. The book concludes with a look at the latest and on-going studies such as this century's research into controls on methylmercury production and landscape-level carbon storage and cycling.

Covering 50 years of research and written by a veritable who's who in peatland and forestry science, this important milestone in the collection of ecological data highlights bright prospects for future research, including the continuation of existing long-term measurements, the initiation of new monitoring programs, and plans for unprecedented studies on climate change.

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